# imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Tgard<sup>™</sup> 300 Series Thermally Conductive Insulators



#### HIGH PERFORMANCE THERMAL INTERFACE PRODUCTS

Tgard<sup>™</sup> 300 is a medium thermal performance insulator pad consisting of a ceramic high temperature silcone rubber coated on electrical fiberglass.

Tgard 300 is specifically designed for applications that require low component mounting forces. The unique formulation will enhance thermal performance which minimizes thermal resistance at low mounting forces. The unique coating formulation offers an excellent mating surface for low pressure clip mounting applications.

#### **FEATURES AND BENEFITS**

- High breakdown voltage of 6,000 volts AC
- Thermal resistance of 0.50º C-in2/watt at 50 psi
- Unique coating formulation offers low mounting forces
- Unifying benefits of thermal & electrical performance for general-purpose applications

#### **APPLICATIONS**

- Switching mode power supplies
- Industrial equipment
- Motor controls

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### Tgard<sup>™</sup> 300 Series Thermally Conductive Insulators

PROPERTIES	TEST METHOD	METRIC VALUES	IMPERIAL VALUES
ELECTRICAL PROPERTIES			
Dielectric withstand voltage 50mm probe for 30 sec	ASTM D149	4,500 volts DC	4,500 volts DC
Dielectric breakdown voltage 50mm probe	ASTM D149	ASTM D149 Avg >6,000 volts AC	
Volume resistivity	ASTN D257	10 <sup>12</sup> ohm-cm	10 <sup>12</sup> ohm-in
Dielectric constant @1Mhz	ASTN D257	3.3	3.3
Electrical RTI temperature rating	UL746D	150ºC	302ºF
MECHANICAL PROPERTIES			
Thickness		0.23 mm	0.009 in
Hardness	ASTM D2240	75 Shore A	75 Shore A
Tensile strength	ASTM D412	10 Mpa	1.5 Kpsi
Elongation @ 45º to warp/fill	ASTM D412	20%	20%
Elongation along width or length	ASTM D412	5%	5%
Operating temperature range		-60º to 180ºC	-76º to 356ºF
Color		Yellow	Yellow
UL flammability rating	UL 94	V-0	V-0

PRESSURE	UNITS	10 (69)	25 (172)	50 (345)	100 (689)	200 (1379)	400 (2758)
TOTAL THERMAL RESISTANC	CE						
Modified ASTM D5470	<sup>o</sup> C-in <sup>2</sup> /watt	0.62	0.57	0.50	0.41	0.34	0.30
Modified ASTM D5470	<sup>o</sup> C-cm <sup>2</sup> /watt	4.00	3.68	3.09	2.65	2.19	1.94
T0-220	ºC/watt	1.17	0.92	0.83	0.81	0.80	0.76
Standard thickness:	9 mils (0.229 mm)						
Configurations available:	Shoot form roll form and dia cut parts						

Configurations available:

Sheet form, roll form and die-cut parts
Single-side, pressure-sensitive adhesive on request

Without adhesive (A0): 12 x 18" sheets, 12" x 65M,

Standard options:

12" x 30M roll or custom configuration
With adhesive (A1): 11.75 x 18" sheets, 11.75" x 30M roll

or custom configuration

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